

ABSTRACT

A light diffusing screen for a single light source-type rear projection television, for use in combination with a Fresnel lens sheet, which can reduce scintillation and, regulate the surface roughness of the screen and provide good images. The light diffusing screen includes: a lens layer which can horizontally refract projected light; and a light diffusing layer provided on a light outgoing side as compared with the lens layer. The light diffusing layer includes a light transparent matrix and light diffusing fine particles formed of a light transparent material dispersed in the light transparent matrix. The light diffusing layer has a multilayer structure of which the outermost layer on the light outgoing side of the light diffusing layer is a layer which diffuses light most strongly, the outermost surface layer on the light outgoing side in the light diffusing screen having a surface roughness Ra of $0.2\ \mu\text{m} \leq \text{Ra} \leq 1.0\ \mu\text{m}$.